

Amendments to the Claims

Claim 1: (Withdrawn) A sealant coating to seal and coat stucco, said sealant coating comprising:

water;
ceramic microspheres;
polymeric microspheres; and
a resin binder.

Claim 2: (Withdrawn) A sealant coating as claimed in claim 1 wherein said ceramic microspheres comprise a multiplicity of hollow ceramic shells having diameters of at least 100 μm .

Claim 3: (Withdrawn) A sealant coating as claimed in claim 2 wherein said hollow ceramic shells have diameters of 120-150 μm .

Claim 4: (Withdrawn) A sealant coating as claimed in claim 1 wherein said polymeric microspheres comprise a multiplicity of hollow polymeric shells having diameters of 25-60 μm .

Claim 5: (Withdrawn) A system as claimed in claim 4 wherein each of said hollow polymeric shells is formed of vinylidene chloride and acrylonitrile.

Claim 6: (Withdrawn) A sealant coating as claimed in claim 1 wherein said resin binder comprises an aqueous copolymer emulsion.

Claim 7: (Withdrawn) A sealant coating as claimed in claim 6 wherein said aqueous copolymer emulsion comprises:
styrene monomers; and
acrylic monomers.

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Claim 8: (Withdrawn) A sealant coating as claimed in claim 1
additionally comprising:

- a polyol;
- an ester alcohol;
- a defoamer;
- a pigment;
- a polysiloxane emulsion;
- a dispersant;
- a surfactant;
- a pH adjuster;
- a preservative; and
- a thickener.

Claim 9: (Withdrawn) A sealant coating as claimed in claim 8
wherein said polyol comprises diethylene glycol.

Claim 10: (Withdrawn) A sealant coating as claimed in claim 8
wherein said pigment comprises a white hiding pigment

Claim 11: (Withdrawn) A sealant coating as claimed in claim
10 wherein said white hiding pigment comprises titanium dioxide.

Claim 12: (Withdrawn) A sealant coating as claimed in claim 8
wherein said pH adjuster comprises monoethanolamine.

Claim 13: (Withdrawn) A sealant coating as claimed in claim 8
wherein said antimicrobial preservative comprises
dimethyloldimethyldantoin.

Claim 14: (Withdrawn) A sealant coating as claimed in claim 8
wherein said thickener comprises a cellulosic thickener.

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Claim 15: (Withdrawn) A method for the production of a sealant coating for stucco, said method comprising:

- a) charging a mixer with water;
- b) adding ceramic microspheres to said mixer;
- c) adding polymeric microspheres to said mixer;
- d) adding a resin binder to said mixer;
- e) mixing said water, said ceramic microspheres, said polymeric microspheres, and said resin binder to produce said sealant coating.

Claim 16: (Withdrawn) A method as claimed in claim 15 wherein:

after said charging activity a) and prior to said adding activity b), said method additionally comprises:

- f) adding a polyol to said mixer;
- g) adding a dispersant to said mixer;
- h) adding a surfactant to said mixer;
- i) adding a first quantity of a defoamer to said mixer;
- j) adding a thickener to said mixer; and
- k) adding a pH adjuster to said mixer;

said adding activity b) adds a first quantity of said ceramic microspheres to said mixer;

after said adding activity b)) and prior to said adding activity c), said method additionally comprises:

- l) adding a quantity of a pigment to said mixer;

after said adding activity c) and prior to said adding activity d), said method additionally comprises:

- m) adding a preservative to said mixer; and

after said adding activity d) and prior to said mixing activity e), said method additionally comprises:

- n) adding an ester alcohol to said mixer;
- o) adding a polysiloxane emulsion to said mixer;

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p) adding a second quantity of said ceramic microspheres to said mixer; and

q) adding a second quantity of said defoamer to said mixer.

Claim 17: (Withdrawn) A method as claimed in claim 16
wherein:

 said method additionally comprises obtaining said mixer;

 prior to said adding activity f), said method additionally comprises setting said mixer to a first speed;

 after said adding activity j) and prior to said adding activity k), said method additionally comprises adjusting said mixer from said first speed to a second speed;

 during said adding activity b), said method additionally comprises adjusting said mixer from said second speed to a third speed;

 after said adding activity b), said method additionally comprises mixing contents of said mixer at said third speed to produce an intermediate slurry;

 after said adding activity d) and prior to said adding activity n), said method additionally comprises adjusting said mixer from said third speed to a fourth speed;

 during said adding activity p), said method additionally comprises adjusting said mixer from said fourth speed to a fifth speed; and

 after said adding activity p), said method additionally comprises mixing contents of said mixer at said fifth speed to produce said sealant coating.

Claim 18: (Withdrawn) A method as claimed in claim 17
wherein:

 said first speed is less than said second speed;

 said second speed is less than said third speed;

 said third speed is greater than said fourth speed; and

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said fourth speed is less than said fifth speed.

Claim 19: (Currently Amended) A system to seal and coat stucco, said system comprising:

a substantially waterproof and breathable polymeric sealant coating comprising microspheres and applied over said stucco; and

a water-resistant acrylic paint applied over said stucco after application of said sealant coating.

Claim 20: (Original) A system as claimed in claim 19 additionally comprising a water-repellent preconditioner applied over said stucco before application of said sealant coating.

Claim 21: (Original) A system as claimed in claim 20 wherein said preconditioner comprises:

water;

an acrylic primer; and

a water-repellent silicate solution configured to bond with cement within said stucco.

Claim 22: (Original) A system as claimed in claim 21 wherein said silicate solution is an aqueous sodium methyl silicate solution.

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Claim 23: (Currently Amended) A system as claimed in claim 19 wherein wherein:

said sealant coating additionally comprises:

water;

a polyol comprising diethylene glycol;

a dispersant;

a surfactant;

a defoamer;

a cellulosic thickener;

a pH adjuster comprising monoethanolamine;

~~ceramic microspheres comprising a multiplicity of hollow ceramic shells having diameters of 120-150 µm;~~

a white hiding pigment comprising titanium dioxide;

~~polymeric microspheres comprising a multiplicity of hollow polymeric shells having diameters of 20-60 µm;~~

an antimicrobial preservative comprising dimethyloldimethyldantoin;

a resin binder comprising an aqueous copolymer emulsion.

emulsion; and

said microspheres comprise:

ceramic microspheres comprising a multiplicity of hollow ceramic shells having diameters of 120-150 µm; and

polymeric microspheres comprising a multiplicity of hollow polymeric shells having diameters of 20-60 µm.

~~an aqueous styrene acrylic copolymer emulsion;~~

~~an ester alcohol; and~~

~~a polysiloxane emulsion.~~

Claim 24: (New) A system as claimed in claim 19 wherein said sealant coating comprises:

a polyol;

an ester alcohol;

a defoamer;

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a pigment;
a polysiloxane emulsion;
a dispersant;
a surfactant;
a pH adjuster;
a preservative; and
a thickener.

Claim 25: (New) A sealant coating as claimed in claim 24 wherein said polyol comprises diethylene glycol.

Claim 26: (New) A sealant coating as claimed in claim 24 wherein said pigment comprises a white hiding pigment

Claim 27: (New) A sealant coating as claimed in claim 26 wherein said white hiding pigment comprises titanium dioxide.

Claim 28: (New) A sealant coating as claimed in claim 24 wherein said pH adjuster comprises monoethanolamine.

Claim 29: (New) A sealant coating as claimed in claim 24 wherein said antimicrobial preservative comprises dimethyloldimethyldantoin.

Claim 30: (New) A sealant coating as claimed in claim 24 wherein said thickener comprises a cellulosic thickener.

Claim 31: (New) A system as claimed in claim 19 wherein:
said sealant coating additionally comprises:
water; and
a resin binder; and
said microspheres comprise:
ceramic microspheres; and

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polymeric microspheres.

Claim 32: (New) A system as claimed in claim 31 wherein said ceramic microspheres comprise a multiplicity of hollow ceramic shells having diameters of at least 100 μm .

Claim 33: (New) A system as claimed in claim 32 wherein said hollow ceramic shells have diameters of 120-150 μm .

Claim 34: (New) A system as claimed in claim 31 wherein said polymeric microspheres comprise a multiplicity of hollow polymeric shells having diameters of 25-60 μm .

Claim 35: (New) A system as claimed in claim 34 wherein each of said hollow polymeric shells is formed of vinylidene chloride and acrylonitrile.

Claim 36: (New) A system as claimed in claim 31 wherein said resin binder comprises an aqueous copolymer emulsion.

Claim 37: (New) A system as claimed in claim 36 wherein said aqueous copolymer emulsion comprises:

styrene monomers; and
acrylic monomers.